



***SRT 5023X***

**Digital Terrestrial Television Receiver**

**USER'S MANUAL**



# Important Safety Instructions

- To avoid electric shock, do not open the unit.
- There are no user-serviceable parts inside. Servicing can only be performed by qualified service personnel.
- Connection can only be to a 240V AC mains supply.
- All safety and operating instructions should be read before the product is operated.
- All warnings on the product and in this user's manual should be adhered to.
- The antenna cable must be earthed.
- Do not use attachments not recommended by the product manufacturer as they may cause hazards or damage the equipment.
- Do not overload adaptors, wall sockets or extension cables as this can result in unit failure or electric shock.
- For cleaning, use only a dry or lightly dampened cloth. Do not use liquid cleaners or aerosol cleaning products.
- Do not place this product on an uneven surface.
- Do not block the ventilation slots on the top of the unit.

# Overview

Thank you for purchasing this Strong Digital Terrestrial Television Receiver.

This product has been manufactured in accordance with strict quality control procedures and is fully compliant with Australian specifications.

Your new receiver will enable you to experience superior picture and sound quality, widescreen images, extra channels and many new features.

- For a complete list of all of our digital terrestrial television receivers and satellite receivers, please go to our website: **[www.strong-technologies.com](http://www.strong-technologies.com)**
- For general enquiries, please email us at **[techau@strong-technologies.com](mailto:techau@strong-technologies.com)**
- For technical assistance, please call our Technical Support Help Line on **1 800 820 030**

# Main Features

- Component: Y / Pb / Pr
- Super-Video Output: 4-Pin Mini Din
- RCA/Cinch: CVBS + L/R Audio
- Dolby Digital: S/PDIF Coaxial
- 16:9 Full screen, 4:3 Letterbox and Pan & Scan
- Auto & Manual Search Modes
- Favourite Channel List
- Channel Grouping
- EPG: Electronic Program Guide
- Picture Zoom Function
- Signal Level and Quality Indicators
- Captions and Teletext
- 8 Timer Event Settings
- Parental Lock (Channels and Menus)
- Full-Function Infra-Red Remote Control
- Shows Movies, Plays Music and Shows Photos from an External USB Memory Stick
- Record Movies and Programs on to an External USB Memory Stick
- Software Upgrade via USB Port and Serial Port
- Games
- DVB/T Compliant
- COFDM Demodulation
- Dimensions: W 250mm x D175mm x H 38mm

# Contents

<b>Important Safety Instructions .....</b>	<b>2</b>
<b>Overview .....</b>	<b>3</b>
<b>Main Features .....</b>	<b>3</b>
<b>Checklist of Accessories .....</b>	<b>6</b>
<b>Controls and Indicators.....</b>	<b>7</b>
Front panel .....	7
Rear panel.....	8
<b>Remote Control .....</b>	<b>9</b>
Installing the batteries in the remote control .....	10
<b>Quick Start.....</b>	<b>11</b>
<b>How to Connect.....</b>	<b>12</b>
Step 1: Connect to the antenna.....	12
Step 2: Choose an installation method.....	12
A: Y / Pb / Pr (Component) using the supplied RCA blue–red–green lead.....	12
B. Separate S-Video (Y/C) connector .....	12
C: CVBS (Composite) using the supplied RCA red–white–yellow lead.....	13
Step 3: Optional connections.....	13
Dolby Digital .....	13
Connecting a recording device (such as a VCR) .....	13
<b>Getting Started .....</b>	<b>14</b>
Minimum Set-up .....	14
Full set-up .....	15
Configuration .....	15
Setting the properties of the on-screen display (OSD) .....	16
Setting the properties of the TV .....	17
Setting system properties .....	18
Setting the time and date .....	19
Setting security options.....	20
<b>Operation .....</b>	<b>22</b>
Basic operations.....	22
Selecting a channel .....	22
Adjusting the volume .....	23
Getting channel Information.....	23
TV/Radio switching .....	23
Multi-language and Dolby Digital broadcasting .....	23
Closed captions .....	24
Teletext.....	25
Picture freeze .....	25
Zooming in or out.....	25
Re-searching for channels and stations.....	25
Organising channels.....	29
Setting favourites.....	29
Moving channels.....	31
Locking channels.....	31
Deleting one or more channels .....	32
Deleting all channels.....	33
Renaming channels and stations.....	34
Re-sorting channels and stations.....	34
Grouping channels .....	35
Edit channel details .....	36
Electronic Program Guide (EPG) .....	37
Opening the EPG .....	38
Daily and Weekly modes .....	38

Using the timer .....	39
Setting or cancelling a timer from the EPG .....	39
Setting or cancelling a timer from the Configuration menu.....	40
Setting or cancelling a timer from the remote control .....	41
<b>Movies, Music &amp; Photos .....</b>	<b>42</b>
Playing movies .....	42
Method 1: Play any movie .....	42
Method 2: Play or delete a movie recorded with the unit.....	43
Recording movies.....	44
Playing music .....	45
Showing photos.....	46
<b>Games .....</b>	<b>47</b>
Box Man .....	48
Tetris .....	48
Hit Rat .....	49
<b>System Maintenance .....</b>	<b>50</b>
System information .....	50
Software upgrades .....	50
Clearing and resetting data.....	51
<b>Troubleshooting.....</b>	<b>52</b>
<b>Specifications.....</b>	<b>53</b>

# Checklist of Accessories

The following accessories have been supplied with your **SRT 5023X**. If any were not supplied, contact the retailer from whom you purchased the unit.

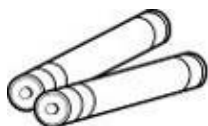
User's manual : 1



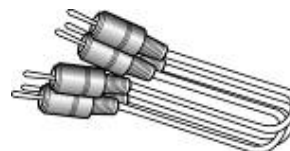
Remote control : 1



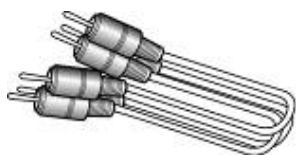
Batteries (AAA type) : 2



CVBS Composite Video and  
Audio Cable  
(yellow, white, red) : 1



Y / Pb / Pr Component Cable  
(blue, red, green) : 1



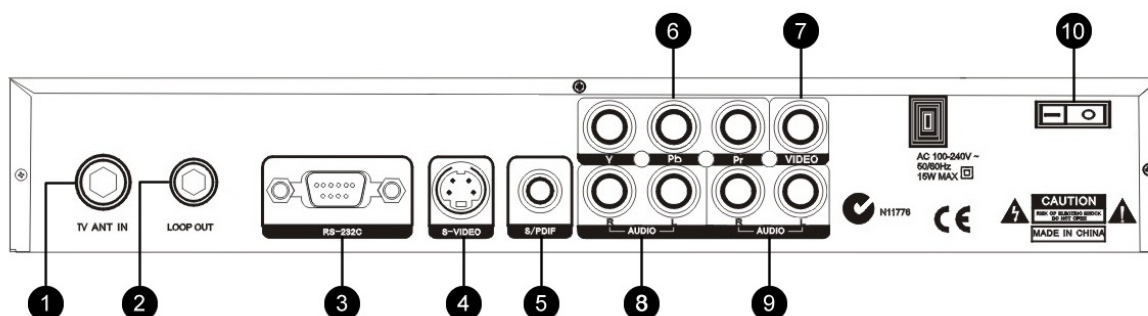
# Controls and Indicators

## Front panel



- 1 USB port, for connecting a USB memory stick
- 2 To switch the receiver between stand-by mode and power-on mode.
- 3 To select the next channel, or next option in a menu.
- 4 To select the previous channel, or previous option in a menu.

## Rear panel



No.	Name	Connector	Function
1	TV ANT IN	IEC 169-24 female	Input from terrestrial antenna
2	LOOP OUT	IEC 169-24 female	Loop-through output to VCR, etc.
3	RS-232C	DB-9	Serial port
4	S-VIDEO	MINI-DIN	S-VHS video output
5	S/PDIF	RCA cinch (black)	Digital audio output (S/PDIF format)
6	Y / Pb / Pr RCA A/V	RCA cinch (green / blue / red)	Component connection (Y / Pb / Pr)
7	Video RCA A/V	RCA cinch (yellow)	Composite connection
8	Audio	RCA cinch • red: right audio • white: left audio	Right & left audio for Component connection
9	Audio	RCA cinch • red: right audio • white: left audio	Right & left audio for S-Video & Composite connections
10	Power switch	–	To turn unit on or off



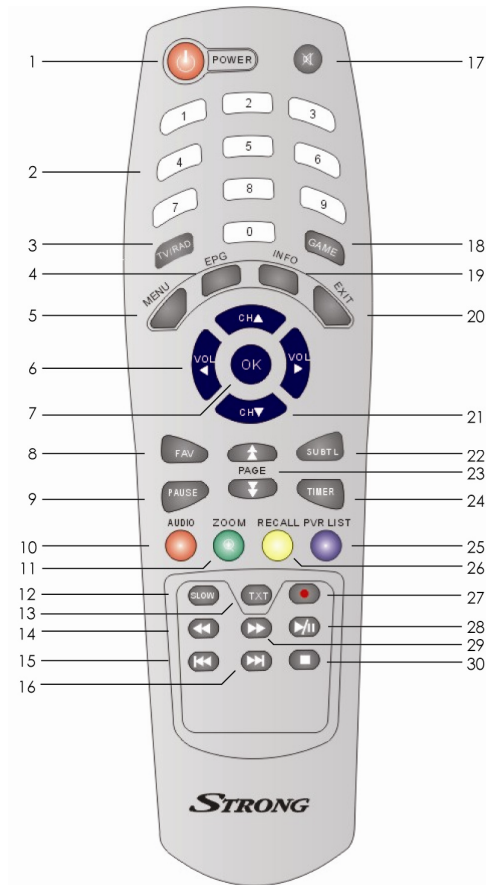
Note the presence of this symbol on the rear panel. It indicates that important operating and maintenance instructions accompany the product. These are set out in this manual. It is highly recommended that you read this manual thoroughly before using the product.



To reduce the risk of electric shock, do not remove any panel of the **SRT 5023X**. Even when the unit is turned off, voltages may be present within it that are of sufficient magnitude to constitute a risk of electric shock.



# Remote Control



- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>1. Stand-by:</b> To switch between power-on and stand-by modes</p> <p><b>2. Numeric Keys (0-9):</b> To choose a channel directly, or to enter numeric information in a menu</p> <p><b>3. TV/RAD:</b> To switch between TV and radio (and vice versa)</p> <p><b>4. EPG (Electronic Program Guide):</b> To show the TV and radio program guide</p> <p><b>5. MENU:</b> To display the main menu, or return to a previous menu</p> <p><b>6. VOL (◀/▶):</b> To change the volume in viewing mode, or to change an option or setting in a menu</p> | <p><b>7. OK:</b> To show the channel list in viewing mode, and to select an item (or confirm a choice) in a menu</p> <p><b>8. FAV:</b> To display the favourites list in viewing mode, and to select a favourite</p> <p><b>9. PAUSE:</b> To freeze the screen</p> <p><b>10. AUDIO:</b> To choose speakers (left, right or stereo), audio format and audio language</p> <p><b>11. ZOOM:</b> To activate the zoom function</p> <p><b>12. SLOW:</b> To slow the playback of a movie</p> <p><b>13. TXT:</b> To show Teletext</p> <p><b>14. ◀◀</b> To fast rewind a movie or music track</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>15. <b>⏮</b> To go to the start of a movie or music track, or show the previous photo</p> <p>16. <b>⏭</b> To go to the end of a movie or music track, or show the next photo</p> <p>17. <b>MUTE</b>: To turn the sound on or off</p> <p>18. <b>GAME</b>: To display the main games menu</p> <p>19. <b>INFO</b>: To show information about the current program</p> <p>20. <b>EXIT</b>: To close the current menu and return to normal viewing</p> <p>21. <b>CH (▲/▼)</b>: To change the channel, or to move the cursor up or down in a menu</p> <p>22. <b>SUBTL</b>: To turn subtitles on or off</p> | <p>23. <b>PAGE (▲/▼)</b>: To move to the next page or previous page ( if there is more than one page), or to zoom in or out</p> <p>24. <b>TIMER</b>: To display the wakeup timer</p> <p>25. <b>PVR LIST</b> : To display a list of recorded movies or programs</p> <p>26. <b>RECALL</b>: To return to the previous channel or station</p> <p>27. <b>●</b> To start recording a movie</p> <p>28. <b>▶/  </b> To start or pause a movie or music track</p> <p>29. <b>▶▶</b> To fast forward in a movie or music track</p> <p>30. <b>■</b> To stop a movie or music track, or to stop recording a movie</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Installing the batteries in the remote control

1. Press down on the retaining catch on the lid of the battery recess on the remote control and remove the lid.
2. Insert two AAA batteries into the recess.  
Be careful to insert the batteries as shown in the diagram inside the recess.
3. Replace the lid over the recess and gently push down on the lid until it snaps firmly into place.

# Quick Start

This section explains how you can quickly set up your **SRT 5023X** using the cables provided. For detailed instructions, see "How to Connect" on page 12.

1

Install batteries in the remote control. See page 10.

2

Connect the **SRT 5023X** to the antenna wall plate. See page 12.

3

Using the supplied Component cable (blue-red-green) or the yellow lead of the supplied Composite cable, connect the **SRT 5023X** to the TV. Make sure you match the colour of a lead with the colour of a socket. (This step provides video output to your TV.) See "Step 2: Choose an installation method" on page 12.

4

Connect the white and red leads of the Composite cable between the **SRT 5023X** and the TV, again matching the colour of a lead with the colour of a socket. (This step provides audio output to your TV.) See "Step 2: Choose an installation method" on page 12.

5

Turn on the **SRT 5023X** and the TV. The Strong Technologies banner appears on your TV screen, followed by **Init Install** window. Choose your preferred on-screen display language. See "Minimum Set-up" on page 14.

6

When asked if you want to install, press **OK**. The **SRT 5023X** automatically scans for digital broadcasters in your area. When the scanning is finished, the menu closes and a local digital TV channel will be showing.

See "Basic operations" on page 22 for general instructions on using the **SRT 5023X** to select TV channels and radio stations.

# How to Connect

Refer to the diagram on page 8 for the location of the sockets identified by numbers in the procedures in this section.

## Step 1: Connect to the antenna

Connect the antenna lead coming from your antenna wall plate to the TV ANT IN socket on the **SRT 5023X** (socket 1).

## Step 2: Choose an installation method

There are a number of methods for connecting the **SRT 5023X**, depending on your preference and the connection options on your TV. These methods are labelled A, B and C below.

---

**TIP:** The various video connection options available provide differing degrees of video quality. In ascending order of quality, these connections are **Composite** (good), **S-Video** (better) and **Component** (best).

---

### A: Y / Pb / Pr (Component) using the supplied RCA blue–red–green lead

For Component video, connect to your TV with the supplied Y / Pb / Pr Component cable (with blue, red and green leads). Connect the leads between the Y, Pb and Pr sockets on the **SRT 5023X** (socket group 6, taking care to match the colour of a lead with the colour of the socket), and the corresponding Component sockets on your TV. (The Component sockets on the TV have the same colour-coding.)

You will need to make separate connections for left and right audio via the audio sockets in socket group 8. This can be done using the supplied RCA cable.

For right audio, connect the red RCA lead between the red audio socket in socket group 8 on the **SRT 5023X** and the corresponding socket on your TV.

For left audio, connect the white RCA lead between the white socket in socket group 8 on the **SRT 5023X** and the corresponding socket on your TV.

### B. Separate S-Video (Y/C) connector

If your TV has a 4-pin Mini Din S-Video socket, you can connect an S-Video cable between socket 4 on the **SRT 5023X** and the corresponding S-Video socket on your TV. (An S-Video cable is not supplied.)

You will need to make separate connections for left and right audio via the audio sockets in socket group 9. This can be done using the supplied RCA cable.

For right audio, connect the red RCA lead between the red audio socket in socket group 9 on the **SRT 5023X** and the corresponding socket on your TV.

For left audio, connect the white RCA lead between the white socket in socket group 9 on the **SRT 5023X** and the corresponding socket on your TV.

## **C: CVBS (Composite) using the supplied RCA red–white–yellow lead**

Using the appropriate colour-coding on socket 7 and socket group 9 you can connect to your TV with the supplied RCA cable. This gives you CVBS (Composite Video) and MPEG-2 stereo audio.

For video, connect the yellow RCA lead between the yellow video socket (socket 7) on the **SRT 5023X** and the corresponding socket on your TV.

For right audio, connect the red RCA lead between the red audio socket in socket group 9 on the **SRT 5023X** and the corresponding socket on your TV.

For left audio, connect the white RCA lead between the white socket in socket group 9 on the **SRT 5023X** and the corresponding socket on your TV.

## **Step 3: Optional connections**

### **Dolby Digital**

Dolby digital bitstream audio S/PDIF can be achieved using a coaxial cable. (This cable is not supplied.) The cable should be connected between socket 5 on the **SRT 5023X** and the S/PDIF socket on your Dolby Digital decoder amplifier. See “Multi-language and Dolby Digital broadcasting” on page 23 for instructions on how to choose Dolby audio.

### **Connecting a recording device (such as a VCR)**

To connect a recording device (such as a VCR), connect an RF cable (not supplied) between the LOOP OUT socket on the **SRT 5023X** (socket 2) and the ANT IN connector on the recording device. (Another cable should be connected between the recording device and the TV. For instructions, consult the user’s manual that came with your recording device or TV.)

# Getting Started

## Minimum Set-up

Once you have connected the **SRT 5023X** to your antenna and to your television with your preferred video and audio connections, you need to:

1. Install the batteries in the remote control (see page 10).
2. Turn on the television.
3. Plug the **SRT 5023X** into mains power and turn on the power at the mains switch.
4. Turn on the **SRT 5023X** using the power-on switch on the back of the receiver (number 10 in the diagram on page 8).
5. Select the video or AV input channel to which the **SRT 5023X** is connected: this can be done by pressing the TV/AV or VIDEO button on your TV remote control. (Refer to your TV user's manual for instructions.)

The Strong Technologies banner page briefly appears, followed by the **Init Install** screen (see below).



On this screen you choose the language for the OSD (on-screen display) and your country. The OSD language defaults to English and the country defaults to Australia. If these defaults are suitable, go to step 9 below. Otherwise, continue with step 6 below.

6. Press **VOL◀** or **VOL▶** on the remote control and then **CH▼** or **CH▲** until the language you want is highlighted. Then press **OK** to select the highlighted language.
7. Press **CH▼** or **CH▲** to highlight the **Area** option.
8. Press **VOL◀** or **VOL▶** and then **CH▼** or **CH▲** until the country you want is highlighted. Then press **OK** to select the highlighted country.
9. Press **OK**. A message appears asking if you want to install.
10. Press **VOL◀** or **VOL▶** to highlight **Yes** and then press **OK**.

The **SRT 5023X** now automatically scans for digital TV channels and radio stations in your area and lists them on the screen as it finds them.



When the scanning is finished, the channel with the lowest number is displayed.

---

**NOTE:** If you get a black screen when scanning is finished, the *SRT 5023X* is attempting to show a high-definition TV channel. The *SRT 5023X* cannot display high-definition broadcasts. In this case, press **CH▼** or **CH▲** until a standard-definition channel appears.

---

Although you can start watching digital TV channels, and listen to digital radio stations, straight away, there are a number of other set-up tasks you should do now. These are explained in the following sections. If you do want to start watching TV or listening to radio now, go to "Basic operations" on page 22 for instructions. You should remember to consider the rest of the set-up tasks at another time. Doing these tasks extends your control over the *SRT 5023X* and the enjoyment you can get from it.

## Full set-up

The other recommended set-up tasks are:

- Setting the properties of the on-screen display (OSD)
- Specifying video settings
- Specifying system settings
- Setting the date and time
- Setting a password to control access

Each of these set-up tasks is described in the next section, "Configuration".

## Configuration

Although you can start watching digital TV channels, and listen to digital radio stations, as soon as the *SRT 5023X* has finished its initial scan, you will get more out of your *SRT 5023X* if you complete the set-up tasks described in this section.

## Setting the properties of the on-screen display (OSD)

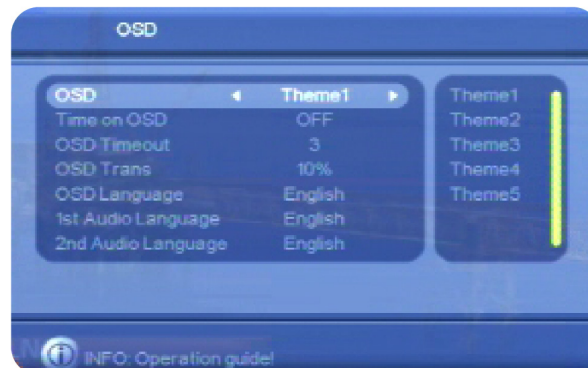
1. Press **MENU** on the remote control. The **Digital TV** menu appears.



2. Press **OK**. The first item in the sub-menu—**Channel Manager**—is highlighted.
3. Press **CH▼** until **Configuration** is highlighted, and press **OK**. The **Configuration** menu appears.



4. With **OSD** highlighted, press **OK**. The **OSD** screen appears.



On this screen you can choose:

- a **theme** for the OSD (that is, a background colour)
- to display the **time** on the OSD
- the OSD **timeout** (that is, the number of seconds an information panel remains on the screen before it disappears)

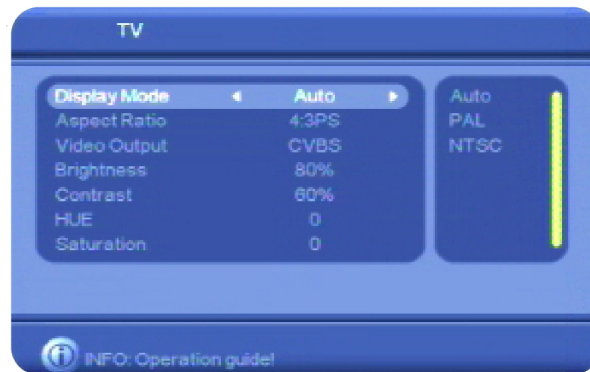


- the OSD **transparency** (that is, how much of the picture behind an information panel will be visible through the information panel)
  - the **OSD language**
  - the first and second preferred **audio languages** (for channels that broadcast programs in more than one language).
5. Select an option you want to change. If necessary, press **CH▼** or **CH▲** until the option is highlighted.
  6. With the option you want to change highlighted, press **VOL◀** or **VOL▶** to step through the allowable values (shown in the panel at the right of the screen). Stop when the value you want is displayed.
  7. If there is another OSD option you want to change, repeat this procedure from step 5.
  8. When you have finished configuring the OSD settings, press **OK**.

The **Configuration** menu re-appears. You can continue with other set-up tasks (see below), or press **EXIT** to return to TV viewing.

## Setting the properties of the TV

1. Press **MENU** on the remote control. The **Digital TV** menu appears.
2. Press **OK**. The first item in the sub-menu—**Channel Manager**—is highlighted.
3. Press **CH▼** until **Configuration** is highlighted, and then press **OK**. The **Configuration** menu appears.
4. Press **CH▼** until **TV** is highlighted, and then press **OK**. The **TV** window appears.



On this screen you can control the following settings:

- Display Mode – PAL, NTSC or AUTO
  - Aspect ratio – 4:3 (Pan & Scan or Letterbox) or 16:9
  - Video output – CVBS (Composite), S-Video or YCbCr (Component)
  - Brightness
  - Contrast
  - Hue
  - Saturation
5. Select an option you want to change. If necessary, press **CH▼** or **CH▲** until the option is highlighted.

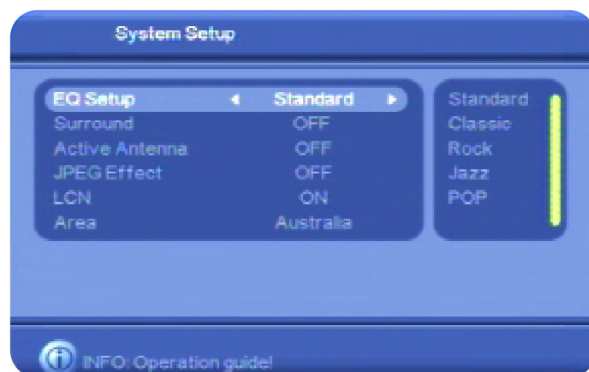
Note that the **Video Output** option should match the type of connection you have between the **SRT 5023X** and the TV.

6. With the option you want to change highlighted, press **VOL◀** or **VOL▶** to step through the allowable values (shown in the panel at the right of the screen). Stop when the value you want is displayed.
7. If there is another TV option you want to change, repeat this procedure from step 5.
8. When you have finished configuring the TV settings, press **OK**.

The **Configuration** menu re-appears. You can continue with other set-up tasks (see below), or press **EXIT** to return to TV viewing.

## Setting system properties

1. Press **MENU** on the remote control. The **Digital TV** menu appears.
2. Press **OK**. The first item in the sub-menu—**Channel Manager**—is highlighted.
3. Press **CH▼** until **Configuration** is highlighted, and then press **OK**. The **Configuration** menu appears.
4. Press **CH▼** until **System Setup** is highlighted, and then press **OK**. The **System Setup** window appears.



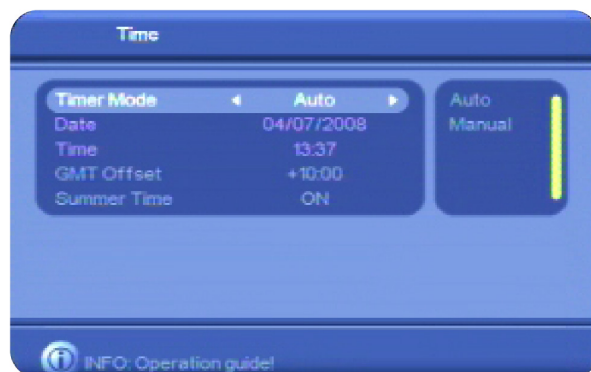
On this screen you can control the following settings:

- Equaliser settings
  - Surround Sound type
  - Active antenna (that is, if an antenna booster is installed that needs power, the **SRT 5023X** can supply the power, if necessary)
  - JPEG effect: to set the way JPEG photos are displayed
  - LCN (Logical Channel Numbering)
  - Area (that is, your country)
5. Select an option you want to change. If necessary, press **CH▼** or **CH▲** until the option is highlighted.
  6. With the option you want to change highlighted, press **VOL◀** or **VOL▶** to step through the allowable values (shown in the panel at the right of the screen). Stop when the value you want is displayed.
  7. If there is another system set up option you want to change, repeat this procedure from step 5.
  8. When you have finished configuring the system, press **OK**.

The **Configuration** menu re-appears. You can continue with other set-up tasks (see below), or press **EXIT** to return to TV viewing.

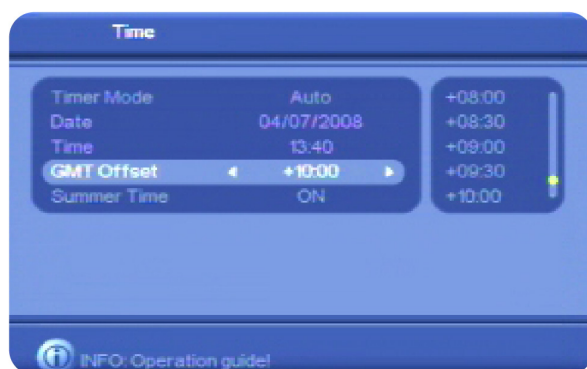
## Setting the time and date

1. Press **MENU** on the remote control. The **Digital TV** menu appears.
2. Press **OK**. The first item in the sub-menu—**Channel Manager**—is highlighted.
3. Press **CH▼** until **Configuration** is highlighted, and then press **OK**. The **Configuration** menu appears.
4. Press **CH▼** until **Time** is highlighted, and then press **OK**. The **Time** window appears.



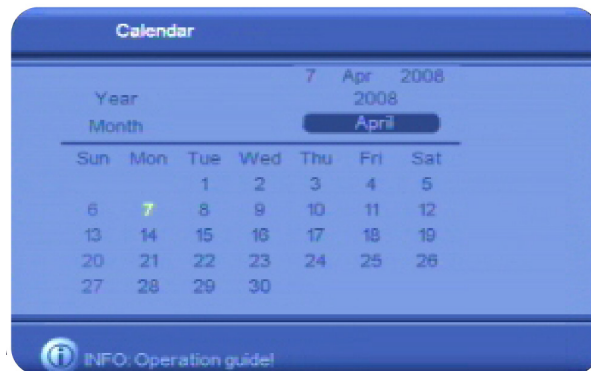
You can set the date and time manually, or have the **SRT 5023X** set the date and time automatically based on how many hours in front of, or behind, Greenwich Mean Time your location is.

- To set the date and time automatically, follow steps 5–10 below and ignore the steps after step 10.
  - To set the date and time manually, follow steps 11–16 below.
5. With **Timer Mode** highlighted, press **VOL◀** or **VOL▶** to highlight **Auto** and then press **CH▼**. The **GMT Offset** option is highlighted.



6. Press **VOL▶** to move to the list of values for the **GMT Offset**.
7. Press **CH▼** or **CH▲** until you have highlighted the number of hours in front of, or behind, Greenwich Mean Time your location normally is (that is, when there is no daylight saving). For example, if you are in Melbourne, Brisbane, Hobart, Canberra or Sydney, you would press **CH▼** until **+10:00** is highlighted; if you are Adelaide or Darwin, you would press **CH▼** until **+09:30** is highlighted; and if you are in Perth, you would press **CH▼** until **+08:00** is highlighted.
8. Press **OK**.

9. If the current time has been adjusted for daylight saving, press **CH ▼** to highlight **Summer Time** and then press **VOL ◀** or **VOL ▶** to select **ON**.
10. Press **OK**.  
The **Configuration** menu re-appears. You can continue with other set-up tasks (see below), or press **EXIT** to return to TV viewing.  
Ignore the rest of this procedure. The remaining steps are for manually setting the date and time.
11. With **Timer Mode** highlighted, make sure **Manual** is selected and then press **CH ▼**. The **Date** option is highlighted.
12. Press **VOL ◀** or **VOL ▶**. An interactive calendar appears.



13. Press the arrow keys on the remote control to move through the calendar until the current date is highlighted, and then press **OK**.
14. Press **OK** to highlight the **Time** option.
15. Press **VOL ◀** or **VOL ▶** to select a digit of the time that you want to change and then enter the correct digit by pressing the corresponding number key on the remote control. Repeat this step until you have entered the correct time.
16. Press **OK**.  
The **Configuration** menu re-appears. You can continue with other set-up tasks (see below), or press **EXIT** to return to TV viewing.

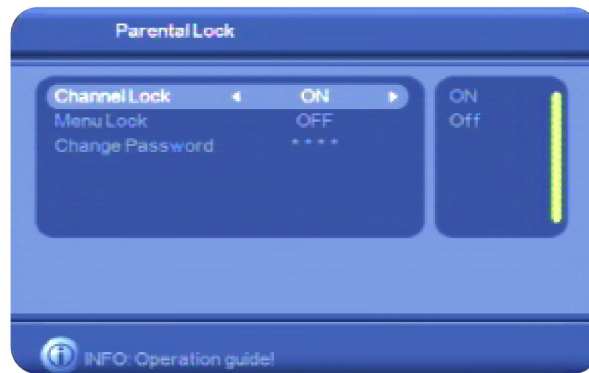
## Setting security options

You can restrict access to the **SRT 5023X** by specifying that a password must be entered in order to:

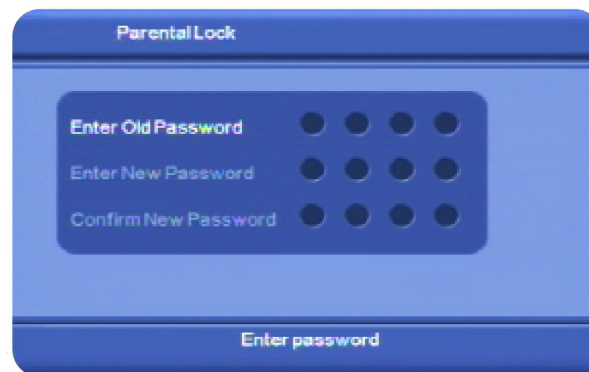
- view a program on a channel that has been locked (**Channel Lock**)
- access the menus (**Menu Lock**)

Follow the procedure below to set or cancel security settings, or to change the password.

1. Press **MENU** on the remote control. The **Digital TV** menu appears.
2. Press **OK**. The first item in the sub-menu—**Channel Manager**—is highlighted.
3. Press **CH ▼** until **Configuration** is highlighted, and then press **OK**. The **Configuration** menu appears.
4. Press **CH ▼** or **CH ▲** until **Parental Lock** is highlighted, and then press **OK**. The **Parental Lock** window appears.



5. Press **CH▼** or **CH▲** to choose a type of security you want to set or cancel—**Channel** or **Menu**—and then press **OK**.
6. Press **VOL◀** or **VOL▶** to change the setting from **OFF** to **ON** (or vice versa). Repeat from step 5 if you want to set or cancel the other type of security.
7. If you **don't** want to change the default password (**0000**) press **OK**. The **Configuration** menu reappears. Press **EXIT** to return to TV viewing and ignore the rest of this procedure.
8. If you **do** want to change the default password (**0000**) or the last password you set, press **CH▼** to highlight the **Change Password** option and then press **OK**. You can now enter the current and new password.



9. Enter the old password using the number keys on the remote control. Once you have entered all four digits, the next option (**Enter New Password**) is highlighted.
10. Enter the new password in both the **Enter New Password** field and the **Confirm New Password** field.

The **Configuration** menu reappears. Press **EXIT** to return to TV viewing.

If you have activated **Channel Lock**, a password will now have to be entered whenever someone wants to access a channel that has been locked. (For instructions on how to lock particular channels, see page 29.)

If you have activated **Menu Lock**, a password will now have to be entered when **MENU** is pressed.

# Operation

## Basic operations

### Selecting a channel

There are a number of ways to select a channel (or digital radio station):

- **Using the number keys on the remote control:** If you know the channel number, enter the number using the number keys on the remote control and then press **OK** on the remote control. (If you don't press **OK**, the channel selected appears after 2 seconds.)

---

**NOTE:** The *SRT 5023X* uses the Logical Channel Numbering system (LCN) by default. Some samples of LCN channel numbers are:

- 1 = Ten network and affiliates
- 2 = ABC
- 3 = SBS
- 7 = Seven network and affiliates
- 9 = Nine network and affiliates

- 
- **Channel list:** Press **OK** on the remote control. This displays the **Quick Select** channel list. Press **CH▼** or **CH▲** on the remote control to select the channel you want, press **OK** and then press **EXIT**.



If you have placed channels into groups (see "Grouping channels" on page 35), the channels in the first group are listed on the **Quick Select** channel list. You can then press **VOL◀** or **VOL▶** to display each group of channels in turn.

- **Favourites list:** Press **FAV** on the remote control to see a list of channels you have added to a favourites list. Press **CH▼** or **CH▲** on the remote control to select a channel and then press **OK**. See "Setting favourites" on page 34 for instructions on creating a favourites list.
- **Scroll:** Press **CH▼** or **CH▲** on the remote control to scroll through the channels in channel number order. (You can also scroll through the channels in order by pressing the channel up and channel down buttons on the front panel of the *SRT 5023X*.)
- **By EPG:** Press **EPG** on the remote control, select the channel from the electronic program guide (EPG), press **OK** and then **EPG**, **MENU** or **EXIT**. The EPG is explained on page 37.
- **Previous channel:** Press the **RECALL** button to display the previous channel.

## Adjusting the volume

While you are watching a program, press **VOL◀** or **VOL▶** on the remote control to decrease or increase the volume respectively.

## Turning off the sound (muting)

To turn off the sound altogether, press the **MUTE** button (🔇) on the remote control. The mute icon is displayed on the screen. Press the **MUTE** button again to restore the sound.

## Getting channel Information

- Press **INFO** on the remote control to display the information banner.



- With the information banner displayed, press **INFO** again to display more detailed information.



Press **EXIT** on the remote control to hide an information banner.

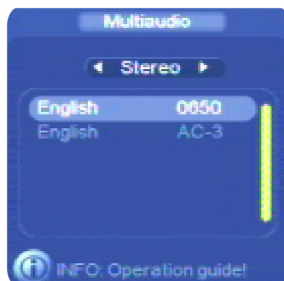
## TV/Radio switching

Press **TV/RAD** on the remote control to switch between TV channels and radio stations (or vice versa).

## Multi-language and Dolby Digital broadcasting

If a channel is being broadcast in more than one audio language, you can choose which language to listen to.

- Press the **AUDIO** button (the red button) on the remote control. The **Multiaudio** window appears.



- If more than one audio language is being broadcast, each language will be listed. Press **CH▼** or **CH▲** to select a language.
- You can also select the output mode for the audio language: stereo, left speaker or right speaker. Press **VOL◀** or **VOL▶** until the output mode you want is highlighted.



4. If a channel is being broadcast in Dolby Digital, the code **AC-3** appears beside the entry (as in the second entry in the example above). If you are set up to receive digital audio, choose this option for better quality audio.
5. Press **OK**.

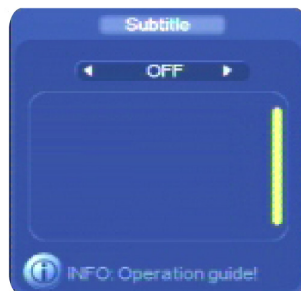
## Closed captions

Closed captions are the spoken words written on the screen. This option is particularly useful for the hard-of-hearing.



To turn on closed captions (or turn them off):

1. Press the **SUBTL** on the remote control when you are in normal viewing mode. The **Subtitle** window appears.



2. Press **VOL◀** or **VOL▶** until **TTX Subtitle** appears (to turn on closed captions) or **OFF** appears (to turn off closed captions).
3. Press **OK**.



## Teletext

Teletext is a text-based data service. It is available only when the broadcasting signal carries such data.



1. Select a channel that is broadcasting teletext.
2. Press **TXT** on the remote control.
3. Select a teletext page by pressing the corresponding number or colour button on the remote control. (The page numbers available are shown on the screen.)

Press **EXIT** on the remote control to cancel teletext.

## Picture freeze

- Press **PAUSE** on the remote control to freeze the display.
- Press **PAUSE** again to resume normal viewing.

## Zooming in or out

You can zoom in on part of the display (and you can also zoom out). To do this:

1. Press **Zoom** (the green button) on the remote control.
2. Zoom in by pressing **PAGE** ▲ or zoom out by pressing **PAGE** ▼. Continue pressing a **PAGE** button until you reach the desired magnification.
3. Press **Zoom** or **EXIT** to cancel zooming.

## Re-searching for channels and stations

If you have moved locations, deleted channels or stations, or if new channels and stations have become available, you will need to conduct another search. Three search options are available:

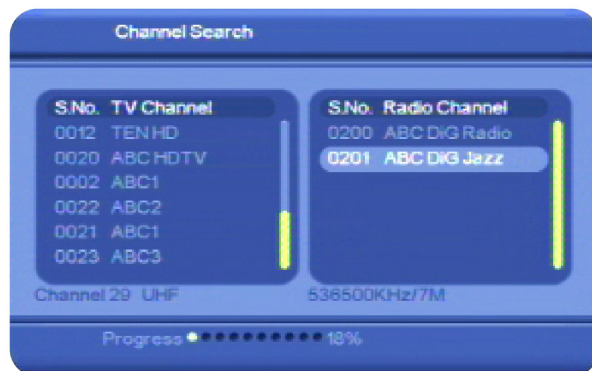
- Auto
- Manual
- Advanced

## Auto search

An auto search repeats the scan the **SRT 5023X** did when you first turned it on. It searches for all channels and radio stations that can be detected in your area, and adds them to your channel list.

1. Press **MENU** on the remote control. The **Digital TV** menu appears.
2. Press **OK**. The first item in the sub-menu—**Channel Manager**—is highlighted.
3. Press **CH▼** to highlight **Installation** and then press **OK**. The **Installation** menu appears.
4. If necessary, press **CH▼** to highlight **Auto Search**, and then press **OK**.

A search commences, and channels and stations are listed on the screen as they are detected.



At the end of the scan, the channel with the lowest number is displayed.

---

**NOTE:** If you get a black screen when scanning is finished, the **SRT 5023X** is attempting to show a high-definition TV channel. The **SRT 5023X** cannot display high-definition broadcasts. In this case, press **CH▼** or **CH▲** until a standard-definition channel appears.

---

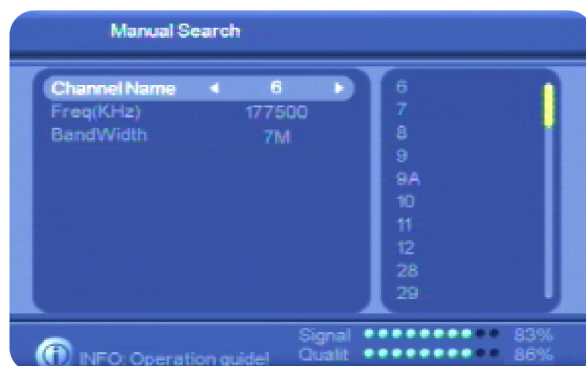
## Manual search

You can only search for TV channels, not radio stations, with the manual search feature.

There are two ways to manually search for a channel: by specifying the LCN (logical channel number) and by specifying PID information.

### Method 1: specifying the LCN (logical channel number)

1. Press **MENU** on the remote control. The **Digital TV** menu appears.
2. Press **OK**. The first item in the sub-menu—**Channel Manager**—is highlighted.
3. Press **CH▼** to highlight **Installation** and then press **OK**. The **Installation** menu appears.
4. Press **CH▼** to highlight **Manual Search** and then press **OK**. The **Manual Search** window appears.



5. Press **VOL◀** or **VOL▶** until the number of the channel you want to add to your channel list is shown in the **Channel Name** field.

If the **SRT 5023X** can detect the channel you selected, the intensity and quality of the signal are indicated by the dotted bars at the bottom of the window. A low intensity or quality reading indicates that you are likely to experience difficulty receiving the channel.

6. Press **OK** to begin the search (or press **EXIT** to abandon the search).

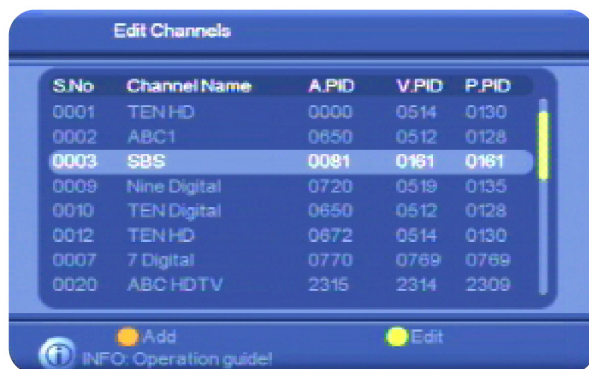
The **Channel Search** window appears while the **SRT 5023X** searches for the channel you specified. If the channel is found, the details are saved to memory and then the **Installation** menu re-appears.

7. Press **EXIT** to return to TV viewing.

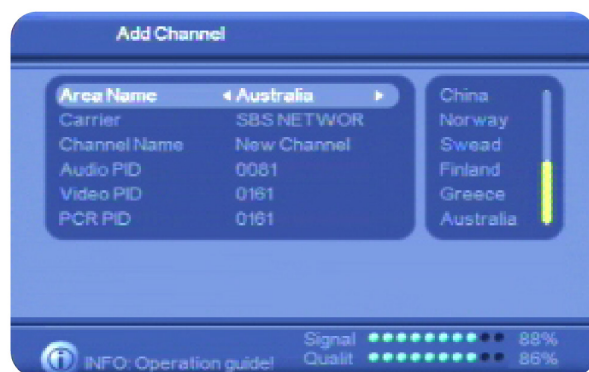
#### Method 2: specifying PID information

For this method, you will need to obtain PID information about the channel you want to add. This information can be provided by the carrier or broadcaster.

1. Press **MENU** on the remote control. The **Digital TV** menu appears.
2. Press **OK**. The first item in the sub-menu—**Channel Manager**—is highlighted.
3. Press **OK**. The **Channel Manager** menu appears.
4. Press **CH▼** or **CH▲** until **Edit Channels** is highlighted and then press **OK**. The **Edit Channels** window appears.



5. Press the red button on the remote control. The **Add Channel** window appears.



6. To specify the area or country from which the channel is being broadcast, press **VOL◀** or **VOL▶**, select a country by pressing **CH▼** or **CH▲** until it is highlighted, and then press **OK**.
7. Press **CH▼** to select the **Carrier** option.
8. Press **VOL◀** or **VOL▶**, select a carrier by pressing **CH▼** or **CH▲** until it is highlighted, and then press **OK**.
9. Press **CH▼** to select the **Channel Name** option.
10. Press **VOL◀** or **VOL▶** to display the on-screen keyboard.
11. Press the number keys corresponding to the character you want in the name. For example, to enter a C, quickly press the 2 button three times. (Pressing it once enters an A; pressing it twice gives you a B, and so on.) Continue entering characters until you have entered the new name.  
The coloured buttons on the remote give you additional character editing functionality: upper case, lower case, insert between existing characters and delete a character. Press **VOL◀** or **VOL▶** to move from character to character.
12. Press **OK**. The new name now appears on the **Add Channel** screen.
13. Press **CH▼** to select the **Audio PID** option and enter the PID using the number keys on the remote control.
14. Press **CH▼** to select the **Video PID** option and enter the PID.
15. Press **CH▼** to select the **PCR PID** option and enter the PID.
16. Press **OK** to add the new channel. The new channel now appears in your **Quick Select** channel list.

---

**NOTE:** The *SRT 5023X* does not check that the PID information you have entered is correct. If it is not correct and you select the new channel from a channel list, a black screen is displayed. If you need to correct PID information, see "Edit channel details" on page 36.

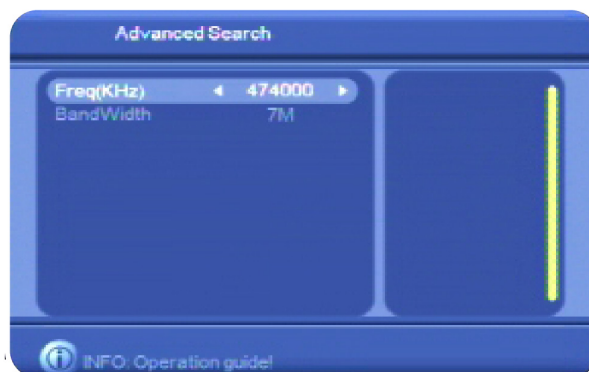
---

### Advanced search

The advanced search feature lets you search for all TV channels broadcast within a range of frequencies that you specify.

1. Press **MENU** on the remote control. The **Digital TV** menu appears.
2. Press **OK**. The first item in the sub-menu—**Channel Manager**—is highlighted.
3. Press **CH▼** to highlight **Installation** and then press **OK**. The **Installation** menu appears.

4. Press **CH▼** or **CH▲** until **Advanced Search** is highlighted and then press **OK**. The **Advanced Search** screen appears.



5. In the **Freq (KHz)** field, enter the frequency of the channel you want. Press the number keys on the remote control to enter digits, pressing **VOL◀** or **VOL▶** to move from digit to digit.
6. Press **CH▼** to move to the **BandWidth** field and press **VOL◀** or **VOL▶** to select the appropriate bandwidth: 6M, 7M or 8M.
7. Press **OK** to start the search.

The **Channel Search** window appears while the **SRT 5023X** searches for channels within the range you specified. If channels are found, the details are saved to memory and then the **Installation** menu re-appears.

8. Press **EXIT** to return to TV viewing.

## Organising channels

The **Channel Manager** sub-menu enables you to:

- create a list of favourite channels
- lock, move, delete, re-sort, group and rename channels

If you have set the channel lock or menu lock, you will have to enter the password to perform most of these operations.

### Setting favourites

You can create a favourites list of channels and then select a channel from that list. This makes it easier to choose and switch between channels if there are many channels available in your area.

You display your favourites list by pressing **FAV** on the remote control. You can then select a favourite and press **OK** to go straight to that favourite channel.

---

**NOTE:** You can also add radio stations to your favourites list. To display the radio stations added to your favourites list, press **TV/RAD** before pressing **FAV**.

---

Follow this procedure to add a channel or station to your favourites list, or to remove it from your favourites list.

1. Press **MENU** on the remote control. The **Digital TV** menu appears.
2. Press **OK**. The first item in the sub-menu—**Channel Manager**—is highlighted.

- Press **OK**. The **Channel Manager** menu appears.



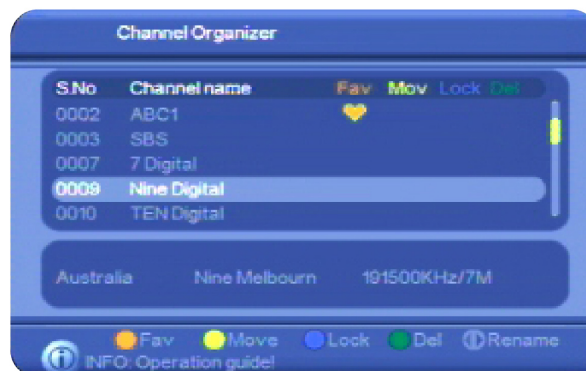
- With **Channel Organizer** highlighted, press **OK**. The **Channel Organizer** window appears.



- Press **CH▼** or **CH▲** until the channel or station you want to add to (or remove from) your favourites list is highlighted.

A channel or station that is already on your favourites list has an icon of a heart beside its name.

- Press the **AUDIO** button (the red button) on the remote control to add the channel or station to your favourites list (or remove it if it is already on that list). A heart icon appears beside the channel or station name to indicate that it is on your favourites list. (If you are removing a channel or station from your favourites list, the heart icon disappears.)



- If you want to add (or remove) another channel, repeat from step 5.
- If you want to add (or remove) a radio station, press **TV/RAD**, select the radio station and press **AUDIO**. Repeat this step to add further radio stations to your favourites list.

9. Press **OK**.
10. Press **EXIT** to return to TV viewing.

---

**TIP:** Another way of organising channels is by grouping like channels together: all news channels, all sports channels, etc. This is explained in "Grouping channels" on page 35.

---

## Moving channels

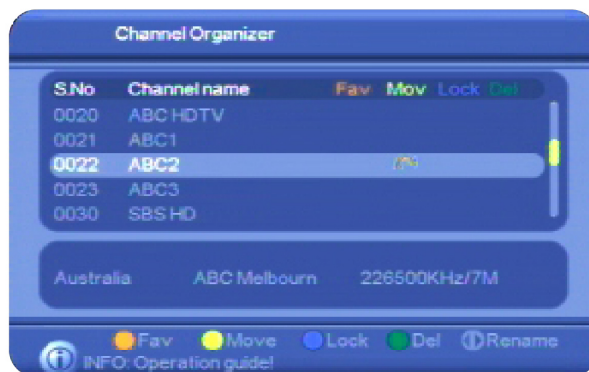
You can change the order in which channels appear in the channels list. You might do this to place the channels you watch most often at the top of the channels list.

---

**NOTE:** You can also change the order of radio stations.

---

1. Press **MENU** on the remote control. The **Digital TV** menu appears.
2. Press **OK**. The first item in the sub-menu—**Channel Manager**—is highlighted.
3. Press **OK**. The **Channel Manager** menu appears
4. With **Channel Organizer** highlighted, press **OK**. The **Channel Organizer** window appears, listing all your TV channels
5. If you want to move radio stations rather than TV channels, press **TV/RAD** on the remote control. A list of radio stations appears. Pressing **TV/RAD** again redisplay the TV channels.
6. Press **CH▼** or **CH▲** until the channel or station you want to move is highlighted.
7. Press the **RECALL** button (the yellow button) on the remote. An icon appears beside the channel or station name to indicate that it is the channel that will be moved.



8. Press **CH▼** or **CH▲** until the intended new position for the channel or station is highlighted.
9. Press **OK**. Your change is saved and the selected channel or station now appears in its new position.
10. If you want to move another channel or station, repeat from step 6.
11. Press **EXIT** to return to TV viewing.

## Locking channels

Locking a channel requires a password to be entered before that channel can be viewed. You cannot lock channels unless the **Channel Lock** has been set to **ON**. (See "Setting security options" on page 20 for instructions.)

---

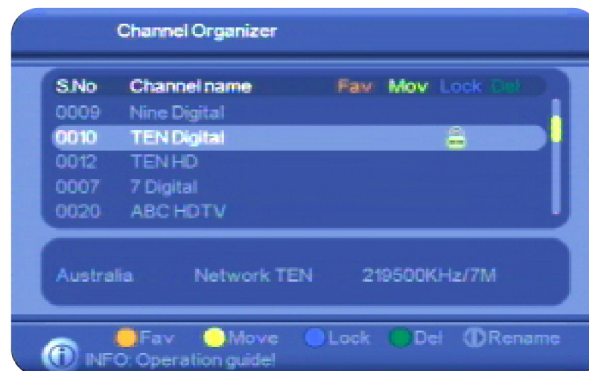
**NOTE:** You can also lock radio stations.

---



Follow this procedure to lock an unlocked channel or station, or to unlock a locked channel or station.

1. Press **MENU** on the remote control. The **Digital TV** menu appears.
2. Press **OK**. The first item in the sub-menu—**Channel Manager**—is highlighted.
3. Press **OK**. The **Channel Manager** menu appears
4. With **Channel Organizer** highlighted, press **OK**. The **Channel Organizer** window appears, listing all your TV channels
5. If you want to lock (or unlock) radio stations rather than TV channels, press **TV/RAD** on the remote control. A list of radio stations appears. Pressing **TV/RAD** again redisplay the TV channels.
6. Press **CH▼** or **CH▲** until the channel or station you want to lock or unlock is highlighted.
7. Press the **PVR LIST** button (the blue button) on the remote control to lock (or unlock) the highlighted channel or station. An icon of a padlock appears beside the channel or station name to indicate that it is locked. (If you are unlocking a channel or station, the icon disappears.)



8. If you want to lock or unlock another channel or station, repeat from step 6.
9. Press **EXIT** to return to TV viewing.

## Deleting one or more channels

You can delete channels that you are never likely to watch. If you want to re-instate a channel that you have deleted, you will need to rescan for it. See "Re-searching for channels and stations" on page 25 for instructions.

If you want to delete all channels at once, see "Deleting all channels" on page 33.

---

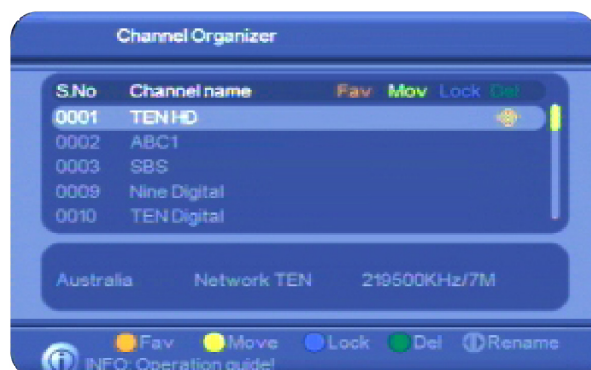
**NOTE:** You can also delete radio stations.

---

1. Press **MENU** on the remote control. The **Digital TV** menu appears.
2. Press **OK**. The first item in the sub-menu—**Channel Manager**—is highlighted.
3. Press **OK**. The **Channel Manager** menu appears
4. With **Channel Organizer** highlighted, press **OK**. The **Channel Organizer** window appears, listing all your TV channels
5. If you want to delete radio stations rather than TV channels, press **TV/RAD** on the remote control. A list of radio stations appears. Pressing **TV/RAD** again redisplay the TV channels.



6. Press **CH▼** or **CH▲** until the channel or station you want to delete is highlighted.
7. Press the **ZOOM** button (the green button) on the remote control to mark the highlighted channel or station for deletion. An icon appears beside the channel or station name to indicate that it is marked for deletion.



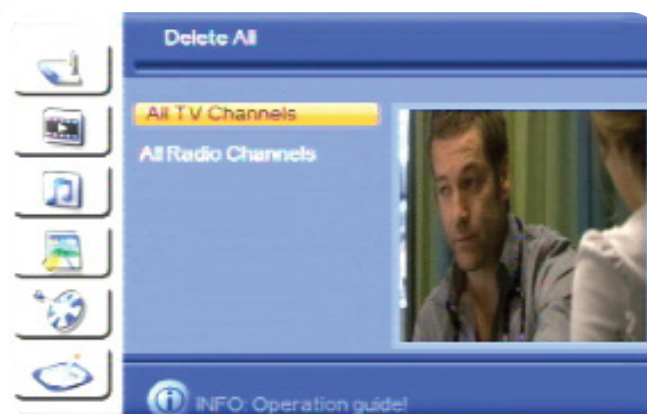
8. If you want to delete another channel or station, repeat from step 6.
9. Press **OK**. A message appears asking if you want to delete the selected items.
10. Press **VOL◀** or **VOL▶** to select **YES** and then press **OK**.
11. Press **EXIT** to return to TV viewing.

## Deleting all channels

You can delete all channels or all stations. If you do, you will need to conduct a search for channels or stations before you can use the **SRT 5023X** as a digital receiver again. (See "Re-searching for channels and stations" on page 25 for instructions.)

To delete all channels or all stations:

1. Press **MENU** on the remote control. The **Digital TV** menu appears.
2. Press **OK**. The first item in the sub-menu—**Channel Manager**—is highlighted.
3. Press **OK**. The **Channel Manager** menu appears.
4. Press **CH▲** to highlight **Delete All** and then press **OK**. The **Delete All** window appears.



5. Select what you want to delete: all TV channels or all radio stations.
6. Press **OK**. A message appears asking if you are sure that you want to proceed.
7. Press **VOL◀** or **VOL▶** to select **YES** and then press **OK**.

8. Press **EXIT** to return to TV viewing.

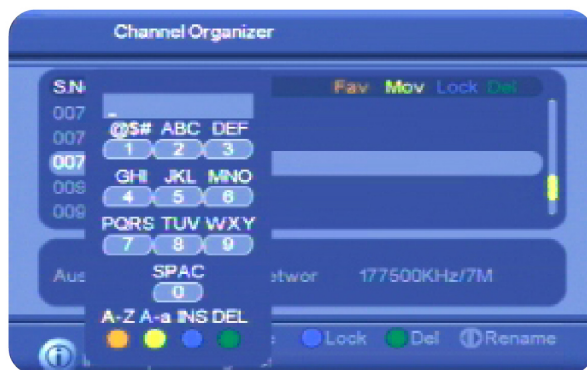
---

**NOTE:** You can also delete all channels and stations by choosing **Factory Default** on the **Digital TV** menu.

---

## Renaming channels and stations

1. Press **MENU** on the remote control. The **Digital TV** menu appears.
2. Press **OK**. The first item in the sub-menu—**Channel Manager**—is highlighted.
3. Press **OK**. The **Channel Manager** menu appears.
4. With **Channel Organizer** highlighted, press **OK**. The **Channel Organizer** window appears, listing all your TV channels.
5. If you want to rename a radio station rather than a TV channel, press **TV/RAD** on the remote control. A list of radio stations appears. Pressing **TV/RAD** again redisplay the TV channels.
6. Press **CH▼** or **CH▲** until the channel or station you want to rename is highlighted.
7. Press **VOL◀** or **VOL▶** to display an on-screen keypad.



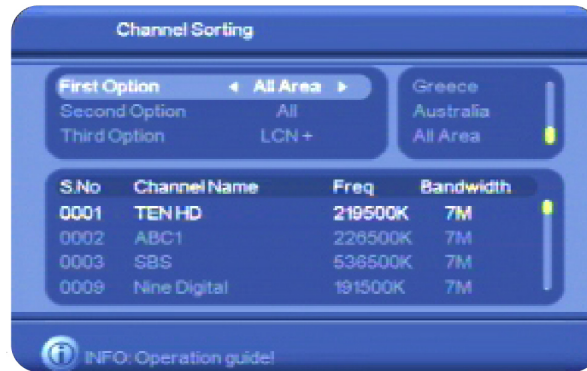
8. Press the number keys corresponding to the character you want in the new name. For example, to enter a C, quickly press the 2 button three times. (Pressing it once enters an A; pressing it twice gives you a B, and so on.) Continue entering characters until you have entered the new name.

The coloured buttons on the remote control give you additional character editing functionality: upper case, lower case, insert between existing characters and delete a character. Press **VOL◀** or **VOL▶** to move from character to character.

9. Press **OK**. The new name now appears in your channel or station list.
10. Press **EXIT** to return to TV viewing.

## Re-sorting channels and stations

1. Press **MENU** on the remote control. The **Digital TV** menu appears.
2. Press **OK**. The first item in the sub-menu—**Channel Manager**—is highlighted.
3. Press **OK**. The **Channel Manager** menu appears.
4. Press **CH▼** to highlight **Channel Sorting** and then press **OK**. The **Channel Sorting** window appears.



You have three levels of sorting:

- First by area (that is, by the country from where the channel is broadcast)
  - Second by type of channel: free-to-air (FTA), scrambled or all channels.
  - Third by name or LCN (logical channel number) number, and in either ascending or descending order
5. To set the first level of sorting, select **First Option**, press **VOL ◀** or **VOL ▶** and then press **CH ▼** or **CH ▲** until the sort option you want is highlighted. Press **OK** to select the highlighted option.
  6. To set the second level of sorting, press **CH ▼** to select **Second Option**, press **VOL ◀** or **VOL ▶** and then press **CH ▼** or **CH ▲** until the sort option you want is highlighted. Press **OK** to select the highlighted option.
  7. To set the third level of sorting, press **CH ▼** to select **Third Option**, press **VOL ◀** or **VOL ▶** and then press **CH ▼** or **CH ▲** until the sort option you want is highlighted. Press **OK** to select the highlighted option.
  8. Press **OK**. A message appears asking if you are sure that you want to re-sort the channels.
  9. Press **VOL ◀** or **VOL ▶** to select **YES** and then press **OK**.
  10. Press **EXIT** to return to TV viewing.

## Grouping channels

You can place channels in various pre-defined groups: News, Sport, Fashion, Movies, Kids, Music etc. When you do this, the channels displayed on the **Quick Select** channels list (displayed when you press the **OK** button during normal viewing) will appear in the groups to which you have assigned them. As with the Favourites list, channel groups can make it easier for you to find a particular channel if there are many channels in your area.

To group channels (or to remove channels from previously assigned groups):

1. Press **MENU** on the remote control. The **Digital TV** menu appears.
2. Press **OK**. The first item in the sub-menu—**Channel Manager**—is highlighted.
3. Press **OK**. The **Channel Manager** menu appears.
4. Press **CH ▼** twice to highlight **Channel Grouping** and then press **OK**. The **Channel Grouping** window appears.



5. Press **CH▼** or **CH▲** until a channel you want to add to a group is highlighted.
6. Press the number key on the remote control that corresponds to the appropriate group shown at the right side of the window: 2 for News, 3 for Science, 4 for Sport and so on. The corresponding icon appears beside the channel in the **Group** column to indicate that the channel has been grouped.

To remove a channel from a group, select it and press 1 on the remote control.

You don't have to add every channel to a group. Those that you don't add to a group are automatically placed in the **None** group.

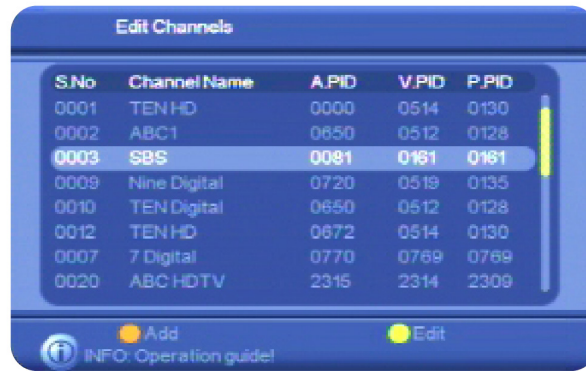
7. To add another channel to a group, repeat this procedure from step 5.
8. Press **OK**. The channels are now assigned to the groups you chose.
9. Press **EXIT** to return to TV viewing.

To check that the stations have been assigned to groups, press **OK** during normal TV viewing. The **Quick Select** channel list first shows just the channels in your first group. Press **VOL◀** or **VOL▶** to see another group's channels. You can select a channel in a group and press **OK** to start watching that channel.

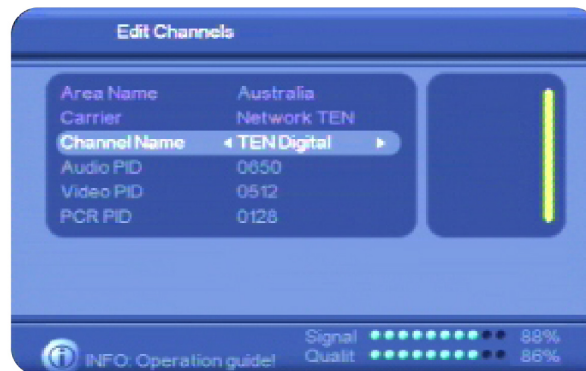
## Edit channel details

Follow this procedure if you want to correct wrong PID details of a channel you have already added to your channel list.

1. Press **MENU** on the remote control. The **Digital TV** menu appears.
2. Press **OK**. The first item in the sub-menu—**Channel Manager**—is highlighted.
3. Press **OK**. The **Channel Manager** menu appears.
4. Press **CH▼** or **CH▲** until **Edit Channels** is highlighted and then press **OK**. The **Edit Channels** window appears.



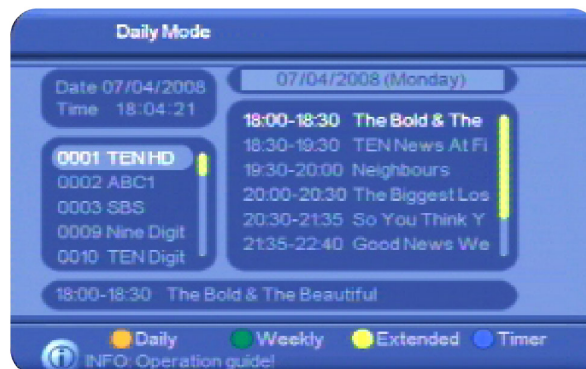
- Press **CH▼** or **CH▲** until the channel you want to edit is highlighted.
- Press the yellow button on the remote control. The **Edit Channels** window now shows the details of the selected channel.



- Select the option that needs to be changed and make the change. Repeat for each option that needs to be changed.
- Press **OK** to save the changes and press **EXIT** to return to normal viewing.

## Electronic Program Guide (EPG)

Some service providers broadcast information about their programs. This information is available on screen via an electronic program guide (displayed by pressing **EPG** on the remote control). An example is shown below.



All available channels are listed at the left of the screen. The current program of the currently selected channel is listed at the top of the right panel, with the programs to follow listed below it. Two modes are available: daily and weekly. Extended information is available about some of the programs.

You can also set up to eight timers from the EPG. A timer is a time at which the program on a specified channel automatically comes on (or a pre-defined message appears on the screen).

## Opening the EPG

1. Press **EPG** on the remote control. The current channel is highlighted (at the left) and the current and next programs are shown at the right. The current program is also highlighted.
2. To choose a different channel, press **VOL◀** or **VOL▶** and then press **CH▼** or **CH▲** until the channel you are interested in is highlighted. Note that as you scroll through the channels, the current and next programs are displayed at the right of the screen.
3. To display extended information about a displayed program, press **VOL◀** or **VOL▶** to highlight the first program. If necessary, press **CH▼** or **CH▲** until the program you are interested in is highlighted. Now press the yellow button on the remote control to display extended information about the highlighted program.



When you are finished with the extended information, press **EXIT**.

4. To select a channel for watching, select it in the list of channels at the left of the screen and press **OK**.
5. Close the EPG by pressing **EXIT**.

## Daily and Weekly modes

The EPG illustrated above is in daily mode. Only the programs for the current day are shown. To see programs for the rest of the week (and subsequent weeks), you need to display the EPG in Weekly mode.

To display Weekly mode, open the EPG and press the green button on the remote control.





- To scroll through the channels, press **CH▼** or **CH▲**.
- To scroll through the programs for a particular channel, select that channel and the press **VOL◀** or **VOL▶**. (If you scroll past midnight, the programs for the next day are displayed.)

You can also display extended information about a program in Weekly mode. Scroll to that program and press the yellow button on the remote control. (Press **EXIT** to close the extended information.)

To switch back to Daily mode, press the red button on the remote control.

## Using the timer

You can set up to eight times at which specified channels will automatically come on or turn off. Follow this procedure to set or change a timer.

There are three ways to set or cancel a timer: from the EPG, from the **Configuration** menu, and by pressing **TIMER** on the remote control.

### Setting or cancelling a timer from the EPG

1. Press **EPG** on the remote control. The Electronic Program Guide appears.
2. Choose the program you want to come on at wakeup time. (This is optional at this stage. If you don't do it here, you can do it later in this procedure.)
3. Press the blue button on the remote control.

The **Wakeup Timer** window appears. If you have already set a timer, the next available timer is shown, with information about the program you selected in the previous step showing.



4. If you want to change the timer number (or select a timer to cancel), move to the **Timer NO** field, press **VOL◀** or **VOL▶** to move to the timer number list, press **CH▼** or **CH▲** to choose the appropriate timer (1 through to 8) and then press **OK**.
5. Press **CH▼** to move to the **Timer Mode** field.
6. Press **VOL◀** or **VOL▶** until the timer mode you want—Off, Once, Daily, Weekly or Yearly—is highlighted. (Select **Off** if you are cancelling the timer, press **OK** and ignore the rest of this procedure.)
7. Press **CH▼** to move to the **Wakeup Mode** field.
8. If you want to change the wakeup mode, press **VOL◀** or **VOL▶** until the mode you want—Channel or Message—is highlighted.  
  
If you choose **Message**, the message will appear on your screen at time and date you specify.
9. Press **CH▼** to move to the **Wakeup Channel** or **Wakeup Message** field. (The field name varies according to the wakeup mode you chose.)
10. If you want to change the wakeup channel or message, press **VOL◀** or **VOL▶** and make your selection.
11. Press **CH▼** to move to the **Wakeup Date** field.
12. If you want to change the wakeup date, press **VOL◀** or **VOL▶** to display an on-screen calendar. Use the arrow keys on the remote control to select the date.
13. Press **CH▼** to move to the **On Time** field.
14. If you want to change the wakeup time, enter the correct digits of the time using the number keys on the remote control.
15. Press **CH▼** to move to the **Duration** field. (This field is not available if you chose **Message** as the wakeup mode.)
16. If you want to change how long the channel is to stay on, enter the duration of the time using the number keys on the remote control.
17. Press **OK** to save the timer settings.
18. To add another timer, repeat from step 4.
19. Press **EXIT** twice to return to normal viewing.

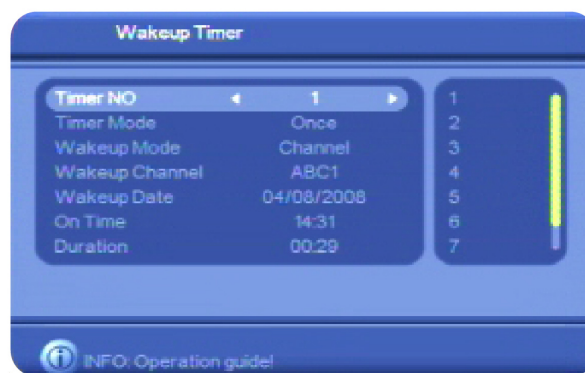
## Setting or cancelling a timer from the Configuration menu

1. Press **MENU** on the remote control. The **Digital TV** menu appears.
2. Press **OK**. The first item in the sub-menu—**Channel Manager**—is highlighted.
3. Press **CH▼** until **Configuration** is highlighted, and then press **OK**. The **Configuration** menu appears.





4. Press **CH▼** or **CH▲** until **Wakeup Timer** is highlighted and then press **OK**. The **Wakeup Timer** screen appears.



If you have already set a timer, the next available timer is shown.

5. Follow steps 4 to 18 in the previous procedure ("Setting or cancelling a timer from the EPG").
6. When you have finished setting timers, press **EXIT** to return to normal viewing.

### Setting or cancelling a timer from the remote control

1. Press **TIMER** on the remote control. The **Wakeup Timer** screen appears.
2. Follow steps 4 to 18 in the procedure titled "Setting or cancelling a timer from the EPG" starting on page 39.
3. When you have finished setting timers, press **EXIT** to return to normal viewing.

# Movies, Music & Photos

You can use the **SRT 5023X** to play movies and music, and show photos, from files stored on a USB memory stick. The allowable formats are MPG, DAT, VOB and AVI (for movies), MP3 and WAV (for music) and JPEG (for photos or other graphics saved in JPEG format).

Before you begin, transfer the files you want to play or show to a USB memory stick.

---

**NOTE:** A USB memory stick is not supplied with the **SRT 5023X**.

---

You can also record onto a USB memory stick the television channel that is currently playing.

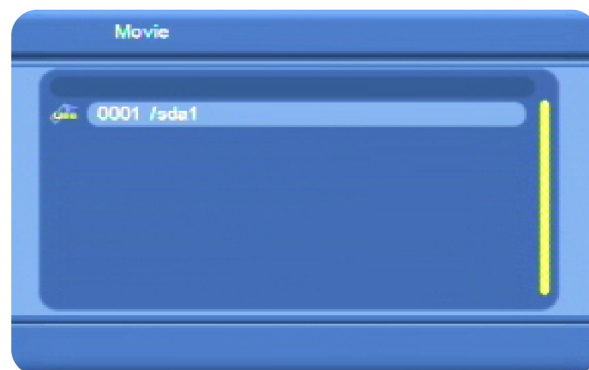
## Playing movies

There are two ways to play movies:

- from the **Movie** window (from where you can play any movie that is on the USB memory stick)
- from the **Disk Manager** window (from where you can play those movies or programs that you have recorded using the **SRT 5023X**)

### Method 1: Play any movie

1. Insert the USB memory stick into the USB port on the front of the **SRT 5023X**.
2. Press **MENU** on the remote control. The **Digital TV** menu appears.
3. Press **CH▼** to highlight the movie icon and then press **OK**. The **Movie** window appears, showing a representation of your memory stick.



4. Go to the folder on the memory stick that contains the movie you want to play:
  - Press **OK** to open the memory stick or to open a selected folder.
  - Press **CH▼** or **CH▲** to step through the folders or files.
  - Press **MENU** to go back up a level, to the parent folder.

---

**NOTE:** A movie or show that you have recorded on a USB memory stick using the **SRT 5023X** will have been automatically placed in a folder called **PVR** on the memory stick.

---

5. When you find the folder, click **OK** to open it and then press **CH▼** or **CH▲** until the movie file you want to play is highlighted.

6. Press **OK** or **▶/||** to start the movie.

While the movie is playing:

- Press **VOL◀** or **VOL▶** to decrease or increase the volume.
- Press **ZOOM** to activate the zoom function, where you can zoom in by pressing **PAGE▲** or zoom out by pressing **PAGE▼**. (Return to normal magnification by pressing the red button on the remote control.)
- Press **MENU** or **■** to stop the movie.
- Press **▶/||** to pause the movie.
- Press **▶/||** to start playing the movie (or to resume a paused movie).
- Press **SLOW** once to slow down the movie to half speed; press it again to slow it to quarter speed, and press it again to resume normal speed.
- Press **▶▶** to fast forward the movie. Repeatedly press the button to increase the speed.
- Press **◀◀** to quickly rewind the movie. Repeatedly press the button to increase the speed.
- Press **I◀◀** to return to the beginning of the movie. The movie starts playing again.
- Press **▶▶I** to end the movie (and start playing the next movie if there is one in the folder).
- Press **MENU** to stop playing and return to your file list.

---

**NOTE:** When one movie finishes, the next movie file in the same folder will begin playing (providing it is of the right format).

---

## Method 2: Play or delete a movie recorded with the unit

If you used the **SRT 5023X** to record a movie or program onto a USB memory stick, you can play it (or delete it) from the **Disk Manager** window:

1. Insert the USB memory stick into the USB port on the front of the **SRT 5023X**.
2. Press **MENU** on the remote control. The **Digital TV** menu appears.
3. Press **CH▼** or **CH▲** until the **Disk Manager** icon (the last icon in the menu) is highlighted and then press **OK**. The **Disk Manager** window appears, showing the programs you have recorded using the **SRT 5023X**.



---

**TIP:** Pressing **PVR LIST** on the remote control takes you directly to the **Disk Manager** window.

---

4. Press **CH▼** or **CH▲** until the movie or program you want to see (or delete) is highlighted.

5. To preview the movie or program, press the red button on the remote control and then press **OK**. (The **Disk Manager** window remains open, and a thumbnail of the movie or program begins playing in the panel at the right of the window.)
6. To play the movie or program at full-screen size, press the yellow button on the remote control and then press **OK**. (The **Disk Manager** window closes, and the movie or program begins playing.)
7. To delete the movie or program, press the green button on the remote control and then press **OK**. When asked to confirm the deletion, press **VOL◀** or **VOL▶** until **Yes** is highlighted and then press **OK**.

## Controlling playback

If you choose to preview a movie or program—by first pressing the red button on the remote control—the only control you have over the replay is to stop it. In other words, only the ■ button has functionality. The other playback buttons are disabled.

If you play the movie or program at full-screen size—by pressing the yellow button on the remote control—all the standard playback buttons on the remote control work in the expected way:

- Press **MENU** or ■ to stop the movie.
- Press ►/|| to pause the movie.
- Press ►/|| to start playing the movie (or to resume a paused movie).
- Press **SLOW** once to slow down the movie to half speed; press it again to slow it to quarter speed, and press it again to resume normal speed.
- Press ►► to fast forward the movie. Repeatedly press the button to increase the speed.
- Press ◀◀ to quickly rewind the movie. Repeatedly press the button to increase the speed.
- Press I◀◀ to return to the beginning of the movie. The movie starts playing again.
- Press ►►I to end the movie (and start playing the next movie if there is one in the folder).
- Press **MENU** to stop playing and return to your file list.

## Recording movies

You can record whatever movie or program is currently being received by the **SRT 5023X**. (Note that music cannot be recorded.)

---

**NOTE:** A movie or program is recorded on a USB memory stick. A USB memory stick is not supplied with the **SRT 5023X**.

---

1. Insert a USB memory stick into the USB port on the front of the **SRT 5023X**. (Make sure that the memory stick has sufficient spare capacity to record the movie or program.)
2. Press ● on the remote control. Recording begins immediately.  
While recording is taking place, **REC** appears on the screen.
3. To stop recording, press ■. When asked to confirm that you want to stop recording, press **VOL◀** or **VOL▶** until **Yes** is highlighted and then press **OK**.

Your recording is automatically saved in a folder named **PVR** on the USB memory stick.

For instructions on how to playback a recorded movie or program, see “Playing movies” on page 42.

## Playing music

1. Insert the USB memory stick containing the music files into the USB port on the front of the **SRT 5023X**.
2. Press **MENU** on the remote control. The **Digital TV** menu appears.
3. Press **CH▼** twice to highlight the music icon and then press **OK**. The **Music** window appears, showing a representation of your memory stick.



4. Go to the folder on the memory stick that contains the music file you want to play:
  - Press **OK** to open the memory stick or to open a selected folder.
  - Press **CH▼** or **CH▲** to step through the folders or files.
  - Press **MENU** to go back up a level, to the parent folder.
5. When you find the folder, click **OK** to open it and then press **CH▼** or **CH▲** until the music file you want to play is highlighted.
6. Press **OK** or **►/||** to start playing the music file.

While music is playing:

- Press **VOL◀** or **VOL▶** to decrease or increase the volume.
- Press **■** to stop the track.
- Press **►/||** to pause the track.
- Press **►/||** to start playing the track (or to resume playing a paused track).
- Press **▶▶** to fast forward the track. Repeatedly press the button to increase the speed.
- Press **◀◀** to quickly rewind the track. Repeatedly press the button to increase the speed.
- Press **◀◀** to return to the beginning of the track. It starts playing again.
- Press **▶▶** to end the track (and start playing the next track if there is one in the folder).
- Press **MENU** to stop playing and return to your file list.

---

**NOTE:** When one piece of music finishes, the next music file in the same folder will begin playing (providing it is of an allowable format).

---

## Showing photos

1. Insert the USB memory stick containing the photos into the USB port on the front of the **SRT 5023X**.
2. Press **MENU** on the remote control. The **Digital TV** menu appears.
3. Press **CH▼** or **CH▲** until the photo icon is highlighted and then press **OK**. The **Photo** window appears, showing a representation of your memory stick.



4. Go to the folder on the memory stick that contains the photos you want to show:
  - Press **OK** to open the memory stick or to open a selected folder.
  - Press **CH▼** or **CH▲** to step through the folders or files.
  - Press **MENU** to go back up a level, to the parent folder.
5. When you find the folder, click **OK** to open it and then press **CH▼** or **CH▲** until the first photo you want to show is highlighted.
6. Press **OK** or **►/II** to view the selected photo on your TV screen.

While a photo is showing:

- Press **VOL◀** or **VOL▶** to rotate the photo 90 degrees left or right respectively.
- Press **CH▼** to flip the photo vertically.
- Press **CH▲** to flip the photo horizontally.
- Press **►|** to show the next photo.
- Press **|◀◀** to show the previous photo.
- Press **OK** to begin a slide show. The remaining photos in the same folder will automatically appear one after the other.
- Press **ZOOM** to activate the zoom function, where you can zoom in by pressing **PAGE▲** or zoom out by pressing **PAGE▼**. (Return to normal magnification by pressing the red button on the remote control.)
- Press **MENU** or **■** to close the photo and return to your file list.
- Press **EXIT** to return to TV viewing.

# Games

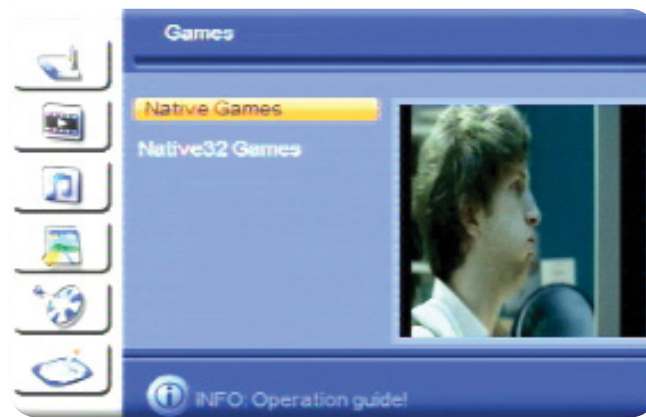
The **SRT 5023X** comes with three popular games that you can play on your TV screen:

- Box Man
- Tetris
- Hit Rat

You can also play other games, games that you have copied onto a USB memory stick.

To select a game to play:

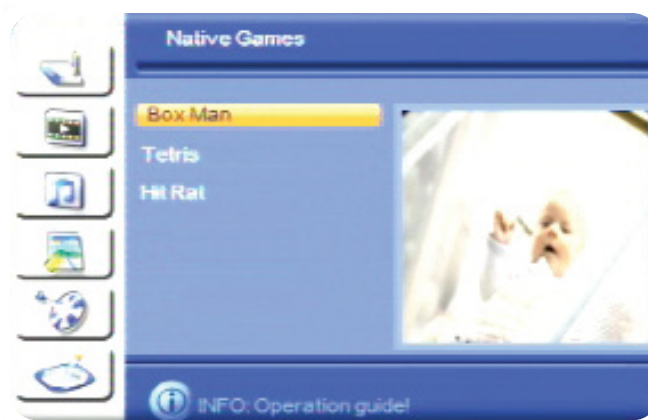
1. Press **MENU** on the remote control.
2. Press **CH▼** or **CH▲** until the games icon is highlighted. (This is the second last icon on the main menu.)
3. Press **OK**. The **Games** window appears.



4. If you want to play a game that you have copied to a USB memory stick, insert the memory stick into the USB port on the front of the **SRT 5023X**, press **CH▼** or **CH▲** until **Native32 Games** is highlighted and press **OK**. Locate the game file on the memory stick and press **OK** to launch it. Follow the instructions that accompany the game.

To locate a file on a USB memory stick:

- Press **OK** to open the memory stick or to open a selected folder.
  - Press **CH▼** or **CH▲** to step through the folders or files.
  - Press **MENU** to go back up a level, to the parent folder.
5. If you want to play one of the games that was shipped with the **SRT 5023X**, make sure that **Native Games** is highlighted on the **Games** window (as in the image shown above) and press **OK**. The **Native Games** window appears listing the three games that were shipped with the **SRT 5023X**: Box Man, Tetris and Hit Rat.



6. If necessary, press **CH▼** or **CH▲** to select the game you want to play and then press **OK**.

## Box Man

The goal of Box Man is to push each red box onto a square that has a yellow cross.

1. Press **OK** to start a game.
2. Use the arrow keys on the remote to position Box Man behind a box and to push the box. Aim for squares marked with a yellow cross. Be wary of pushing a box into a corner where it cannot be manoeuvred any further.



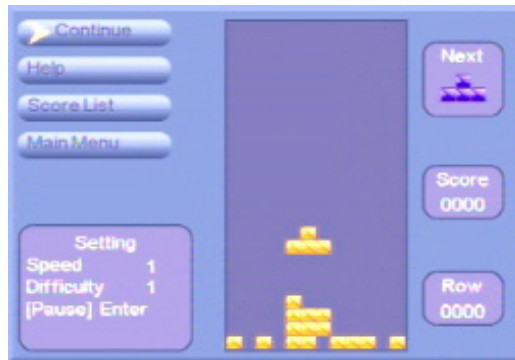
3. To cancel a game, press **OK** and then select **Exit Game**.

## Tetris

The goal of Tetris is to orient a series of falling blocks so as to maximise the number of blocks that can fit into a well. The game is over when the height of all the blocks matches the depth of the well. Your score is the number of individual blocks you can fit into the well.

1. Press **OK** to start a game.
2. As the blocks drop, you can move them horizontally by pressing **VOL◀** or **VOL▶**. You can also rotate a falling block by pressing **CH▲** and speed up the fall of a block by pressing **CH▼**. To help you determine how best to place the block that is currently falling, a preview of the next block to fall is shown in the pane at the right of the screen. Press **OK** to pause the game and **OK** again to resume.





3. To cancel a game, press **OK**, select **Main Menu** and then select **Exit Game**.

## Hit Rat

The goal of Hit Rat is to score points by pressing a remote control key when the rat is over one of the yellow dots. The nine yellow dots represent the numeric keys on the remote control (1–9). Press the corresponding numeric key when the rat moves over a yellow dot.

1. Press **OK** to start a game.
2. To score points, press the corresponding numeric key when the rat moves over a yellow dot.



3. To cancel a game, press **OK**, select **Main Menu** and then select **Exit Game**.

# System Maintenance

You can upgrade the software in your **SRT 5023X** as new versions become available. Information about the current version (and information about the hardware) is available from the menu to help you determine if you need to upgrade. This information might also be useful if you need to obtain technical support from Strong Technologies.

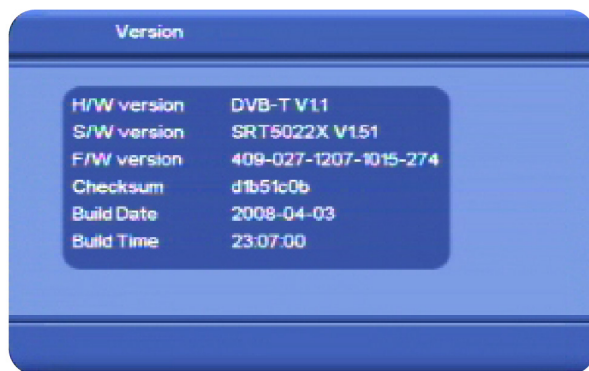
You can also reset the **SRT 5023X**, by re-instating the settings it had when it left the factory.

## System information

To display system information about your **SRT 5023X**, such as the software version, hardware version and so on:

1. Press **MENU** on the remote control and then press **OK**.
2. Press **CH▼** or **CH▲** until **Version** is highlighted and then press **OK**.

The **Version** window appears.



3. Press **EXIT** to return to normal viewing.

## Software upgrades

If a new version of the **SRT 5023X** software becomes available, you can download the software to your PC and then transfer it to your **SRT 5023X** via a USB memory stick. Watch the Strong Technologies website for announcements of software upgrades and instructions on how to obtain an upgrade.

1. Once you have obtained an upgrade, copy it to a USB memory stick.
2. Place the USB memory stick in the USB port on the front of the **SRT 5023X**.
3. Press **MENU** on the remote control. The **Digital TV** menu appears.
4. Press **OK**. The first item in the sub-menu—**Channel Manager**—is highlighted.
5. Press **CH▼** until **Software Upgrade** is highlighted, and then press **OK**. The **Software Upgrade** menu appears.
6. Press **CH▼** until **Download from USB** is highlighted, and then press **OK**. The **USB Upgrade** window appears. A representation of the folders and files on the memory stick appears.

7. Locate the software upgrade file. (Press **CH▼** or **CH▲** to navigate down or up through the folders. Press **OK** to open a folder, or press **EXIT** to return to the parent folder.)
8. With the software upgrade file highlighted, press **OK**.

When the upgrade is finished, the **SRT 5023X** will restart. Remove the USB memory stick. Note that all previous data stored on your **SRT 5023X** will have been deleted.

---

**TIP:** You can also upgrade using the RS-232C port on the back of the **SRT 5023X**. The Strong Technologies website will have instructions on how to do this.

---

## Clearing and resetting data

---

**WARNING:** This procedure returns the **SRT 5023X** to its default factory settings. All data (such as time and date, channels, stations and timers) will be lost.

---

1. Press **MENU** on the remote control and then press **OK**.
2. Press **CH▼** or **CH▲** until **Factory Default** is highlighted and then press **OK**.
3. A warning message appears asking you to confirm that you want to return the **SRT 5023X** to its default settings. To continue, press **VOL◀** or **VOL▶** and then **OK**; otherwise press **OK** to cancel.

You will need to rescan in order to view channels or listen to radio stations.

# Troubleshooting

There may be a number of causes of abnormal operation. Occasionally receivers can hang (just as a PC will do from time to time). In this case, you should reset the receiver by disconnecting it from mains power, waiting 30 seconds and then reconnecting it to mains power. If the unit is still not operating correctly, refer to the following table for the indicated problem and likely solution.

Symptoms	Possible causes	Solution
Indicators on front panel do not light up	AC power cord is not connected	Check that the power cord is plugged into the wall socket.  Make sure the power switch is on.
No picture and sound	The cables connecting the TV and the receiver are not properly connected	Make sure that the correct cable is connected between the TV and the receiver, and that the antenna is connected.
	The TV mode is not correct	Check that the correct video or AV input has been selected on your TV.
Picture and/or audio glitch	Insufficient signal strength	Check that the antenna cable is securely plugged in and that the signal is adequate.
	Electrical interference	Check that all antenna cabling is quad-shielded.
No sound	The receiver or TV is in mute mode	Press the MUTE button on the receiver and on the TV.
	Initial volume level has not been set on your TV	Select the desired TV volume level using the TV remote control.
Remote control is not working	Batteries not inserted	Insert batteries
	Batteries are flat	Change the batteries in the remote control.
	Remote control is outside the range of operation	Aim the remote control directly at the receiver.
Movie, music or photo files on a USB memory stick don't appear	Files are not of the right format.	Check that the formats are those that can be read by the <b>SRT 5023X</b> .

**For Technical Assistance:** Please call our Technical Support Help Line on **1 800 820 030**

**For General Enquiries:** Please email us at **techau@strong-technologies.com**

**Product Return Tracking:** If you need to send your receiver to Strong Technologies for repair or evaluation, please keep a record of the unit's **serial number**. This will ensure ease of tracking and identification on your behalf.

# Specifications

<b>Tuner &amp; Channel Decoder</b>	Input Connector Antenna	IEC 169-2 Female
	Output Connector – RF Loop Out	IEC 162-2 Male
	Frequency range	176MHz–860MHz
	Input impedance	75Ω
	Signal level	–65 to –25 dBm
	IF bandwidth	6/7/8 MHz
	Waveform	OFDM
	Carrier Mode	2k and 8k hierarchical/non hierarchical
	Code Rate	1/2, 2/3, 3/4, 5/6, 7/8
	Guard Interval	1/4, 1/8, 1/16, 1/32
<b>MPEG Transport Stream</b>	Standard	MPEG-2 ISO/IEC 13818-1
	Rate	Up to 15 Mbps
<b>Video Decoding</b>	Profile Level	MPEG-2 MP@ML
	Input Rate	Max 15 Mbps
	Aspect Ratio	4:3, 16:9 Pan & Scan, Letter Box
	Video Resolution	720 x 576, 720 x 480
<b>Audio Decoding</b>	Standard	MPEG Layer 1,2
	Sampling Rate	32, 44.1, 48KHz
	Channels	Single, Dual Mono, Stereo, Joint Stereo
<b>Main System</b>	Main Processor	SPHE1002
	Memory	Flash Memory: 1MByte; SDRAM: 8MByte
<b>Audio &amp; Video In/Out</b>	Video Component	Y / Pb / Pr Component YUV
	Video SVHS	4-pin Din Connector
	Video Composite	RCA/Cinch, Video Output (CVBS)
	USB	USB 2.0



**STRONG TECHNOLOGIES PTY LTD.**

60 WEDGEWOOD ROAD, HALLAM, VICTORIA 3803

**PH:** +61 3 8795 7990 **FAX:** +61 3 8795 7991

**TECHNICAL SUPPORT: 1 800 820 030**

**STRONG & CO. (FAR EAST), LTD.**

P. O. BOX 85, YOKOHAMA, KANAGAWA-KEN

JAPAN 231-91 **FAX:** +81 45 651-1842

**[www.strong-technologies.com](http://www.strong-technologies.com)**

**Email: [techau@strong-technologies.com](mailto:techau@strong-technologies.com)**

© Strong Technologies Pty Ltd., 2008